```
human HDGF2 Nt  - ACCGCTCGTCCGCCCGGCTTCAGGCCCGCGGGGAGCGCGCGCAATTCGTC  -50
                                                   ||||| |
mouse HDGF  Nt  -                                  CGCAAAC-TTG  -10

human HDGF2 Nt  - GGCCCGCGGGGGGGCGGCCTCCCGGCATCTTCGCGGCGACCAAGGACTAC  -100
                   ||| ||||        ||||||| | ||||| | ||   || | |
mouse HDGF  Nt  - GGCTCGCGC---------TTCCCGGCT-CGGCGCGGAGCCCGG-GGCGCC  -49

human HDGF2 Nt  - CAGGAAGGGGAGCGGCTGGGATGGCGCG-TCCG--CGGCCCCGCGAGTAC  -147
                   |         || | ||      || |||| |||   ||||    ||||||
mouse HDGF  Nt  - CG-----CGGCCCCGCCA---TGTCGCGATCCAACCGGCAGAAAGAGTAC  -91

human HDGF2 Nt  - AAAGCGGGCGACCTGGTCTTCGCCAAGATGAAGGGCTACCCGCACTGGCC  -197
                   ||      || ||||||||| || || |||||||||| || |||| ||||||||||
mouse HDGF  Nt  - AAGTGCGGAGACCTGGTGTTTGCGAAGATGAAAGGATACCCACACTGGCC  -141

human HDGF2 Nt  - GGCCCGGATTGATGAACTCCCAGAGGGCGCTGTGAAGCCTCCAGCAAACA  -247
                   |||||||||||||||| | || |||| || ||||||| | |||| ||||
mouse HDGF  Nt  - GGCCCGGATTGATGAGATGCCTGAGGCTGCAGTGAAGTCAACAGCCAACA  -191

human HDGF2 Nt  - AGTATCCTATCTTCTTTTTTGGCACCCATGAAACTGCATTTCTAGGTCCC  -297
                   | ||| |    |||| ||||||||| |||||||| || ||||| || || |||
mouse HDGF  Nt  - AATACCAAGTCTTTTTTTTTGGGACCCATGAGACGGCATTCCTGGGCCCC  -241

human HDGF2 Nt  - AAAGACCTTTTTCCATATAAGGAGTACAAAGACAAGTTTGGAAAGTCAAA  -347
                   |||||||| || || ||| |||| | ||| || || ||||||||| ||| | ||
mouse HDGF  Nt  - AAAGACCTCTTCCCTTATGAGGAATCCAAGGAGAAGTTTGGCAAGCCCAA  -291

human HDGF2 Nt  - CAAACGGAAAGGATTTAACGAAGGATTGTGGGAAATAGAAAATAACCCAG  -397
                   |||   ||||||| || | ||| ||   |||||||| || || || |||||
mouse HDGF  Nt  - CAAGAGGAAAGGGTTCAGCGAGGGGCTGTGGGAGATCGAGAACAACCCTA  -341

human HDGF2 Nt  - GAGTAAAGTTTACTGGCTACCAGGCAATTCAGCAACAGAGCTCTTC---A  -444
                   ||| |||   |||||||||||| |    ||| || |||||| | | |    |
mouse HDGF  Nt  - CAGTCAAGGCCTCTGGCTACCAGTCCTCCCAGAAAAAGAGTTGTGCGGCA  -391

human HDGF2 Nt  - GAAAC--------------------TGAGGGAGAAGGTGGAAATAC---  -470
                   || |                      |||||| || |||| || |
mouse HDGF  Nt  - GAGCCCGAGGTGGAGCCCGAAGCCCATGAGGGTGACGGTGATAAGAAGGG  -441

human HDGF2 Nt  - ---TGCAGATGCAAGCAGTGAGGAAGAAGG--------TGATAGAGTA--  -507
                      |||||| |  ||||| || |||||||||        |||| || |
mouse HDGF  Nt  - CAGTGCAGAGGGCAGCAGCGACGAAGAAGGGAAACTGGTGATCGATGAAC  -491
```
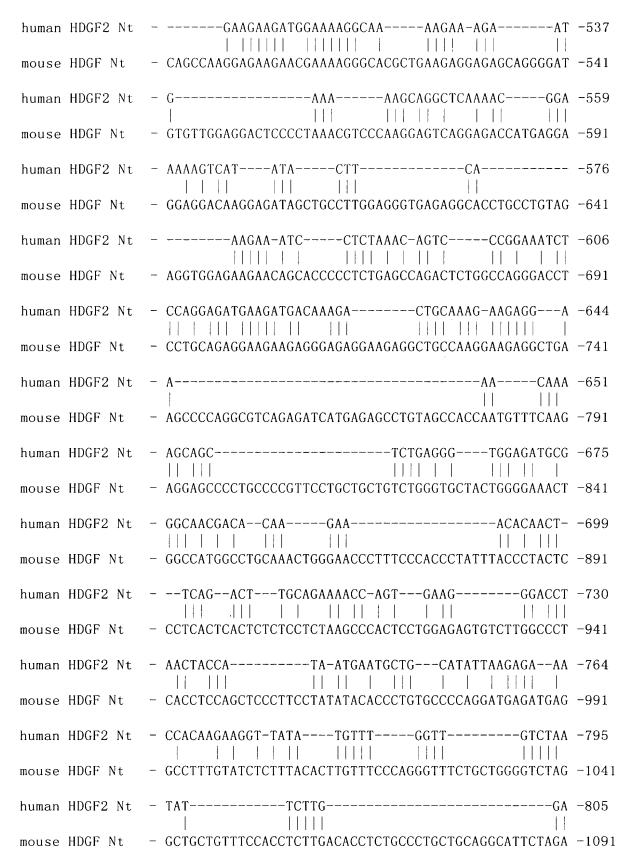
Fig. 1

```
human HDGF2 Nt  -  -------GAAGAAGATGGAAAAGGCAA-----AAGAA-AGA-------AT  -537
                      | ||||||| ||||||| |     |||| |||       ||
mouse HDGF Nt   -  CAGCCAAGGAGAAGAACGAAAAGGGCACGCTGAAGAGGAGAGCAGGGGAT  -541

human HDGF2 Nt  -  G---------------AAA------AAGCAGGCTCAAAAC-----GGA  -559
                   |               |||      ||| || |   | ||     |||
mouse HDGF Nt   -  GTGTTGGAGGACTCCCCTAAACGTCCCAAGGAGTCAGGAGACCATGAGGA  -591

human HDGF2 Nt  -  AAAAGTCAT----ATA-----CTT------------CA-----------  -576
                    | | ||    |||     |||         ||
mouse HDGF Nt   -  GGAGGACAAGGAGATAGCTGCCTTGGAGGGTGAGAGGCACCTGCCTGTAG  -641

human HDGF2 Nt  -  --------AAGAA-ATC-----CTCTAAAC-AGTC-----CCGGAAATCT  -606
                           ||||| | |     |||| | | ||| |     || | | |||
mouse HDGF Nt   -  AGGTGGAGAAGAACAGCACCCCCTCTGAGCCAGACTCTGGCCAGGGACCT  -691

human HDGF2 Nt  -  CCAGGAGATGAAGATGACAAAGA--------CTGCAAAG-AAGAGG---A  -644
                   || | ||| ||||| ||    |||        |||| ||| ||||||  |
mouse HDGF Nt   -  CCTGCAGAGGAAGAAGAGGGAGAGGAAGAGGCTGCCAAGGAAGAGGCTGA  -741

human HDGF2 Nt  -  A-------------------------------AA-----CAAA  -651
                   |                               ||     |||
mouse HDGF Nt   -  AGCCCCAGGCGTCAGAGATCATGAGAGCCTGTAGCCACCAATGTTTCAAG  -791

human HDGF2 Nt  -  AGCAGC----------------------TCTGAGGG----TGGAGATGCG  -675
                   || |||                      |||| | |    ||| || |
mouse HDGF Nt   -  AGGAGCCCCTGCCCCGTTCCTGCTGCTGTCTGGGTGCTACTGGGGAAACT  -841

human HDGF2 Nt  -  GGCAACGACA--CAA-----GAA----------------ACACAACT-  -699
                   ||| | | |   |||     |||                ||| | |||
mouse HDGF Nt   -  GGCCATGGCCTGCAAACTGGGAACCCTTTCCCACCCTATTTACCCTACTC  -891

human HDGF2 Nt  -  --TCAG--ACT---TGCAGAAAACC-AGT---GAAG--------GGACCT  -730
                     ||| .||| | | || || | | ||| || |||
mouse HDGF Nt   -  CCTCACTCACTCTCTCCTCTAAGCCCACTCCTGGAGAGTGTCTTGGCCCT  -941

human HDGF2 Nt  -  AACTACCA----------TA-ATGAATGCTG---CATATTAAGAGA--AA  -764
                   || |||         || || | ||| | | | | |||| |
mouse HDGF Nt   -  CACCTCCAGCTCCCTTCCTATATACACCCTGTGCCCCAGGATGAGATGAG  -991

human HDGF2 Nt  -  CCACAAGAAGGT-TATA----TGTTT-----GGTT---------GTCTAA  -795
                   |  | | | || |||| | |||||| |||| || |||||
mouse HDGF Nt   -  GCCTTTGTATCTCTTTACACTTGTTTCCCAGGGTTTCTGCTGGGGTCTAG  -1041

human HDGF2 Nt  -  TAT-------------TCTTG-------------------------GA  -805
                   |               |||||                         ||
mouse HDGF Nt   -  GCTGCTGTTTCCACCTCTTGACACCTCTGCCCTGCTGCAGGCATTCTAGA  -1091
```

Fig. 1 (cont.)

```
human HDGF2 Nt  -  --TTTG------ATA----------------TGAACCAACACATAG---  -827
                     ||||        |||               ||||  || | | ||
mouse HDGF Nt   -  CCTTTGGGGTGGATAGTGGGCAGGAGTGGAGGTGAAAGAATATAAAGGAG  -1141


human HDGF2 Nt  -  -------TCCTTGTTGTCATTGAC------AGAACC-----CCAG-----  -854
                          || | | || ||| | |        || ||     ||||
mouse HDGF Nt   -  TGTGGGTTCATGGATGGCATCGTCTACCTGAGCTCCTGTCTCCAGCCCCC  -1191


human HDGF2 Nt  -  -------TTTG----TATG--TACATT-----------------------  -868
                          |||      | ||  ||||||
mouse HDGF Nt   -  ACACTTATTTTCCCATCTGCCTACATTCAAGAAACAGGACACTGTGGGAG  -1241


human HDGF2 Nt  -  ----------ATTCAT--ATTCCTCTCTGTTGTGTTTCGGG---------  -897
                            || |||  ||   ||  ||||| ||| |||
mouse HDGF Nt   -  AGAGGCTACCATCCATCCATAAATCCTTGTTGATTTTTGGGAACACTTAT  -1291


human HDGF2 Nt  -  --------------GGGAA-AAGACATTTTAGC-----------CTTT--  -919
                                 |||   ||| ||| |||           ||||
mouse HDGF Nt   -  CCCCCTGACCCCAGGGGTTCAAGGAATTGTAGTTTAACATCTAGACTTTGG  -1341


human HDGF2 Nt  -  --TTTAAAAGTT--------------------------------------  -929
                     |||  |||||
mouse HDGF Nt   -  AGTTTCCAAGTTTGGGCCTAGGACCTGGAGGGAGCTAAGAGCTGAAGAAT  -1391


human HDGF2 Nt  -  --ACTGATTTAATTTCA-----TGT-TATTTGGTT------GCATGAA--  -963
                     ||||||||| || |    ||| | ||| | |      ||| ||
mouse HDGF Nt   -  CAACTGATTTGCATTGAGGAAATGTCTCTTTAGATCTCAGGGCAGAAATG  -1441


human HDGF2 Nt  -  ----------------GTTGCCCTTAACCACT----AAGGATTAT---C  -989
                                   | |||| | | | |||   || | ||      |
mouse HDGF Nt   -  ATAACCTGGGGAGACCTGCTGCCTTCATCTACTTCCCAATGCTTGAGGCC  -1491


human HDGF2 Nt  -  A----------AGATTTTTG-CGCAGACTTATA---------CATGTCT-  -1018
                   |          |||| |||  | ||||| || |         ||| | |
mouse HDGF Nt   -  AGCCTGTAGTCAGATATTTCACCCAGACATAAAGGAAAAGACCATTTTTT  -1541


human HDGF2 Nt  -  --AGGATC                        -1024
                     ||||
mouse HDGF Nt   -  TTAGGAAATGTTTTTAATAAAA  -1563
```

Identity: 68.7%

Fig. 1 (cont.)

```
human HDGF2  - MARP-RPREYKAGDLVFAKMKGYPHWPARIDELPEGAVKPPANKYPIFFF -49
               |.|   | .||| ||||||||||||||||||||||.|| ||| |||| .|||
mouse HDGF   - MSRSNRQKEYKCGDLVFAKMKGYPHWPARIDEMPEAAVKSTANKYQVFFF -50

human HDGF2  - GTHETAFLGPKDLFPYKEYKDKFGKSNKRKGFNEGLWEIENNPGVKFTGY -99
               |||||||||||||||| | |.|||| |||||| |||||||||| || .||
mouse HDGF   - GTHETAFLGPKDLFPYEESKEKFGKPNKRKGFSEGLWEIENNPTVKASGY -100

human HDGF2  - QAIQQQSSS-----ETEGEGGN-----TADASSEEEGDRVEEDGKGKRKN -139
               |. | | .     | |   |        .|. ||.||| ..  |   | ||
mouse HDGF   - QSSQKKSCAAEPEVEPEAHEGDGDKKGSAEGSSDEEG-KLVIDEPAKEKN -149

human HDGF2  - EKAGSKRKKSYTSKKSSKQSRKSPGDEDD-------------------- -168
               ||   ||.      | |  . |    |..
mouse HDGF   - EKGTLKRRAGDVLEDSPKRPKESGDHEEEDKEIAALEGERHLPVEVEKNS -199

human HDGF2  - --------------KDCKEEENKSSSEGGDAGNDTRNTTSDLQKTSEGT -203
                             .  ||  |  .|                    |
mouse HDGF   - TPSEPDSGQGPPAEEEEGEEEAAKEEAEAPGVRDH-----------ESL -237
```

Identity: 53.7%
Similarity: 9.4%

Fig. 2